



Channel Islands National Marine Sanctuary Sanctuary Superintendent's Report

Volume 5, Number 6



A report for the Sanctuary Advisory Council and Sanctuary Constituents

January 2008

ABOUT THE SANCTUARY

Designated in 1980, the Channel Islands National Marine Sanctuary (CINMS or sanctuary) consists of an area off the coast of California of over 1,100 square nautical miles adjacent to the following islands and offshore rocks: San Miguel Island, Santa Cruz Island, Santa Rosa Island, Anacapa Island, Santa Barbara Island, Richardson Rock, and Castle Rock, extending seaward to a distance of six nautical miles. The islands vary in distance from 12 to 40 nautical miles offshore from Santa Barbara and Ventura counties in southern California.

A fertile combination of warm and cool currents in this area results in a great variety of plants and animals including kelp forests, fish and invertebrates, pinnipeds, cetaceans and sea birds. The sanctuary also has a wealth of maritime heritage resources including Chumash Native American artifacts and over 100 historic shipwrecks. Human uses in the area include commercial and recreational fishing, marine wildlife viewing, boating, diving, kayaking, maritime shipping, nearby offshore oil and gas development, research and monitoring, and numerous educational activities.

RESOURCE PROTECTION

Vessel Grounding Response

The fishing vessel *Alegria*, a locally owned lobster boat, was grounded on or about December 19, 2007 on the north side of Santa Rosa Island near Arlington Springs Canyon. Fortunately, the vessel captain was safely airlifted off the vessel. The United States Coast Guard (USCG) contracted Ocean Blue Salvage, which to date has successfully removed 110 gallons of fuel, other hazardous liquids and the batteries. As of January 15, 2008 salvage efforts were underway to completely remove the vessel from Channel Islands National Park (CINP or Park) and National Marine Sanctuary (CINMS or Sanctuary) for disposal on the mainland. (See photo on p. 2)

On or about December 20, 2007 the sailing vessel *Emily* grounded on the west end of Chinese Harbor, Santa Cruz Island. Fortunately, the vessel captain was safely airlifted off the vessel. Within a couple of tidal cycles the vessel had completely broken up and is considered a total loss; unfortunately, no fuel or other hazardous materials were recovered and a light sheen was seen in the area. National Oceanic and Atmospheric Administration (NOAA) Office of Law Enforcement is working with the USCG to contact the responsible party who is reported to be a foreign national. (See photo on p. 2)

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Window on the Sanctuary

Double-crested Cormorant (*Phalacrocorax auritus*). Like all cormorants, the double-crested dives to find its prey. It mainly eats fish, but will sometimes also eat amphibians and crustaceans. After diving, it spends long periods standing with its wings outstretched to allow them to dry, since they are not fully waterproofed. Photo: Hal Beral.





Vessel groundings in December included the fishing vessel *Alegria* at Santa Rosa Island (top) and the sailing vessel *Emily* at Santa Cruz Island (bottom). Photos: NOAA.



Now that the Channel Islands MPA network is complete, the Sanctuary is releasing a revised brochure. The cover notes that this brochure is effective January 2008.

visitors, and by Park Rangers and California Department of Fish and Game Wardens while patrolling the MPAs.

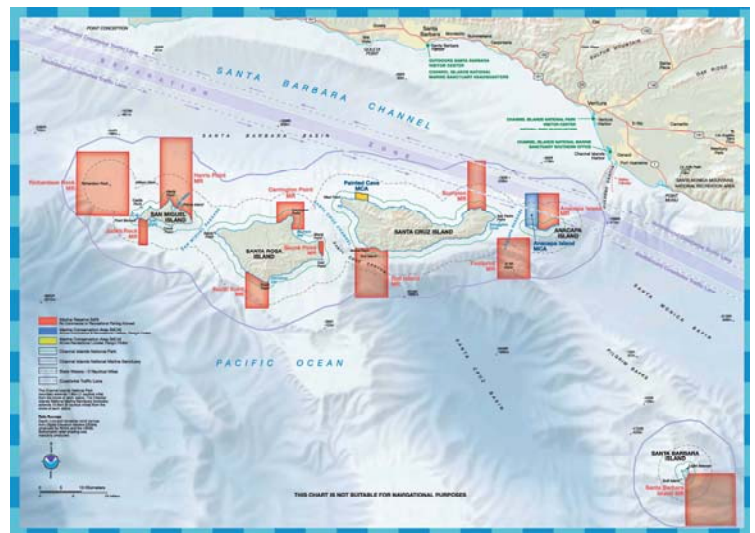
Other Issues

The Sanctuary Advisory Council (Advisory Council) Subcommittee on Large Cetaceans and Shipping has reviewed and provided feedback on a draft process proposal titled: *Reducing Ship Strikes on Large Cetaceans in the Santa Barbara Channel and Channel Islands National Marine Sanctuary*. Sanctuary staff and the subcommittee will discuss the proposal and next steps during the January 25, 2008 Advisory Council meeting.

Channel Islands Marine Protected Area Network

As of December 17, 2007, the Channel Islands Marine Protected Area (MPA) network is complete from mean high water to the offshore federal water boundaries. The state rulemaking process filled the state water gaps between the state water MPAs designated in April 2003, and the federal water MPAs designated in July 2007. The State Office of Administrative Law approved the rulemaking and the regulations became effective upon filing with Secretary of State on December 17th.

As of Jan. 8, 2008 a revised "Protecting Your Channel Islands" brochure is now available. The revisions include new maps that depict the completed MPA network in both state and federal waters. The brochure is the primary outreach product on the location of the MPAs, and is provided to the public via 80 local businesses that intersect with Sanctuary and Park



The revised *Protecting Your Channel Islands* brochure shows the complete Channel Islands MPA network. For more maps please visit <http://channelislands.noaa.gov/marineres/main.html>.

MANAGEMENT PLAN REVIEW

The National Marine Sanctuary Program's (NMSP) West Coast Region office completed a cursory review of responses to the 674 comments on the Draft Management Plan/Draft Environmental Impact Statement (DMP/DEIS). The Region's overarching comment was that it would be preferable for the individual comments and responses to be consolidated around common themes. Sanctuary staff have been working to consolidate all comments and responses. Once the consolidation is complete, the revised response to comments document will be reviewed by the Region and NMSP headquarters staff, followed by reviews from NOAA attorneys. Progress continues to advance on modifying draft documents into the Final Management Plan and Final Environmental Impact Statement.

As previously reported, to more fully address graywater and sewage discharge issues from large vessels (greater than 300 gross registered tons), the NMSP will soon issue a Supplemental Notice of Proposed Rulemaking and Supplemental Draft Environmental Impact Statement as a necessary step toward completion of the management plan revision process. These supplemental documents will be released in order to ensure that the public has adequate information and opportunity to comment on the possibility of sanctuary regulation of graywater and sewage discharges from large vessels. CINMS staff finalized the supplemental environmental documents in May, and have since been revising documents in response to agency reviewer comments.

Since the November Superintendent's Report, the NOAA Office of General Counsel completed their review (which lasted from August-January) of the supplemental documents. Still to come are reviews and sign-off from NOAA's National Ocean Service and NOAA headquarters. The supplemental documents will then be made available for public review and comment, and comments received will be considered and integrated into the Final Management Plan/Final Environmental Impact Statement and a Final Rule.

Sanctuary staff will continue to provide updates on the Supplemental Notice of Proposed Rulemaking, Supplemental Draft Environmental Impact Statement, Final Management Plan, Final Environmental Impact Statement, and Final Rule at upcoming Sanctuary Advisory Council meetings and via the sanctuary's

management plan web page:

channelislands.noaa.gov/manplan/overview.html.

SANCTUARY ADVISORY COUNCIL

Numerous applications have arrived to the Sanctuary offices for recently advertised open positions on the Sanctuary Advisory Council (Advisory Council). The applications have been forwarded to the Advisory Council's Executive Committee (Chair, Vice Chair and Secretary) for initial review. Twelve applications were received for the two Public At-Large alternate positions, along with six applications for the Education seat and three for the Recreational Fishing seat. The appointments for these positions will be made final after selection by the Sanctuary Superintendent, approval by the NMSP West Coast Regional Superintendent, and ratification by the Director of the NMSP. The application period for the Chumash Community Seat and the Tourism alternate position has been extended until February 10, 2004. Application materials are available on line at <http://www.channelislands.noaa.gov/sac/main.html>, or by contacting Dani Lipski at 805-966-7107, ext. 422 or danielle.lipski@noaa.gov.

VESSEL OPERATIONS

Changing of the Guard – New Vessel Operations Officer Reports for Duty

On January 14th, LT Kate Peet (CINMS Vessel Operations Officer) left her post at the Sanctuary for her next NOAA Corps billet: working with a ship in NOAA's National Marine Fisheries Service fleet. LTJG Matt Davis replaced Peet as the Vessel Operations Officer on January 18th. While Davis is settling into his new environs, please call 805-966-7107 with your vessel-related inquiries, and CINMS staff members will direct your call accordingly.

Davis' educational background includes a BS in Aerospace Studies from Embry Riddle Aeronautical University, and a MA in Mathematics from Eastern Michigan University. As a NOAA Corps officer for just over two years, he recently finished up a sea tour on the NOAA ship *Miller Freeman*. The ship spent most of it's time in the Gulf of Alaska and the Bering Sea conducting fisheries research. Davis enjoys rock



climbing, skiing, backpacking and diving. He spent his free time in Alaska climbing Aleutian peaks and diving under piers. He loves being on the ocean and is very excited to start working for the Sanctuary.

Please join us in welcoming LTJG Davis to the Sanctuary community, and in wishing LT Peet all the best in her next assignment.

RESEARCH & MONITORING

Dr. Steve Katz Settles In as the Sanctuary's New Research Coordinator

Dr. Steve Katz began his work as Channel Islands National Marine Sanctuary Research Coordinator in September, 2007. Dr. Katz joined the National Marine Sanctuary Program team after six years at the National Marine Fisheries Service, where he was the Monitoring and Evaluation Coordinator for Salmon Recovery at the Northwest Fisheries Science Center in Seattle, Washington. At NMFS he coordinated Federal, State and Tribal programs to assess progress in the recovery of endangered salmon and steelhead trout in Oregon, Washington, Idaho and Montana, and in particular evaluate the success of habitat restoration actions intended to improve conditions for fish. Dr. Katz is working here in Channel Islands to develop a similar scientific program to assess the status of the Sanctuary's natural resources. Prior to this Dr. Katz has worked in the fields of ocean engineering, bioengineering and coastal ecology in California, Washington and British Columbia, Canada. Dr. Katz has a degree in Zoology and Biomechanics from the University of British Columbia and was a post-doctoral fellow at the Scripps Institution of Oceanography in La Jolla, California. In addition, Dr. Katz has broad experience in research diving operations in academic programs and both civilian and military government programs. Please join us in giving Dr. Katz a warm welcome.

Research Symposia and Workshops

California Islands Symposium and Channel Islands Marine Reserves Special Symposium

Final planning is underway for the California Islands Symposium and Channel Islands Marine Reserves Special Symposium, to be held February 5-8, at the Embassy Suites Mandalay Beach Hotel. The California

Islands Symposium will feature presentations of natural and cultural resource information collected on all of the California Islands - the Channel Islands, the Farallones Islands, and the islands offshore from Baja, Mexico - and their surrounding marine environments. Topic areas will include archeology, anthropology, cultural resources, human history, population biology, ecological processes and systems, systematics, geology, paleontology, oceanography, and climatology. This symposium requires registration. For more information, please visit: <http://www.californiaislands.org/>.

Following the California Islands Symposium, the Channel Islands Marine Reserves Special Symposium will take place February 7-8, also at the Embassy Suites Mandalay Beach Hotel. This symposium is part of a five-year review process of the state marine reserves in the Sanctuary. Scientists, educators, and enforcement officers will give presentations highlighting results of their efforts over the past five years. The education and enforcement session will be held on Thursday, February 7th from 6 to 9 pm. Biological and socioeconomic monitoring will be the focus of talks on Friday, February 8th from 8 am to 5 pm. This symposium is open to the public and pre-registration is not required. For more information, please visit:

<http://www.californiaislands.org/CISMainPages/NOAA%205-year%20Monitoring%20Review.htm>.

National Centers for Ecological Analysis and Synthesis (NCEAS) Marine Reserves Workshops
CINMS staff Steve Katz, Sean Hastings, Ben Waltenberger (Physical Scientist), Natalie Senyk (Scientific Advisor), and Dani Lipski (Research Assistant) participated in marine reserves workshops October 29-31, and November 26-28, 2007. These workshops were the second and third of four workshops that bring together agency, academic, and non-profit scientists to analyze data and prepare presentations for this February's Channel Islands Marine Reserves Symposium. The workshops were organized by the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO) and hosted at NCEAS in Santa Barbara.

Research and Monitoring Activities

Marine Mammal Acoustics Research

Researchers from Scripps Institution of Oceanography and Sanctuary staff continued a partnership project to

study how marine mammals are affected by ship noise. On October 29 and 30, PhD student Megan McKenna, other Scripps graduate students, and Sanctuary staff surveyed for marine mammals and deployed acoustic equipment in and around the Sanctuary. The CINMS research vessel (R/V) *Shearwater* served as the team's research platform. The team recovered and deployed a High-frequency Acoustic Recording Package (HARP) near Point Conception, and deployed a HARP near Santa Cruz Island. They also used a hydrophone array to record marine mammal vocalizations while surveying for marine mammals. CINMS has approved a permit for McKenna to deploy two new instruments in the Sanctuary in 2008. These instruments are funded by a grant from NOAA's ocean acoustics program.

Sanctuary Aerial Monitoring and Spatial Analysis (SAMSAP)

Sanctuary staff conducted three SAMSAP flights between October 20 and the end of 2007. The Sanctuary continues to contract a Partenavia Observer high wing, twin-engine aircraft from Aspen Helicopters of Oxnard. During the flights Sanctuary staff collected data on vessel use, and on distribution of marine mammals around the five northern Channel Islands and the Santa Barbara Channel shipping lanes.

Staff conducted the first survey of the reporting period on Thursday, November 8. The survey included waters surrounding Santa Rosa and San Miguel islands, where staff observed urchin and lobster fishing activity.

Staff conducted the second survey on Thursday, November 29, and covered San Miguel, Santa Rosa, Santa Cruz, and Anacapa islands. Surveyors observed several types of fishing vessels, including lobster and urchin vessels, mostly in the western portion of the Sanctuary. Surveyors also observed squid vessels spending their day between Santa Rosa and Santa Cruz islands. They spotted the R/V *Shearwater* south of Point Bennett, San Miguel Island, at the location of a Reef Environmental Education Foundation (REEF) survey.

Staff conducted the final survey on December 3, which included Santa Barbara Island and the shipping lanes between San Miguel and Anacapa islands. No whales were spotted during this survey. Seas were calm before an incoming swell hit, but few boats were observed, with the exception of the squid fishing fleet transiting towards

the islands. Staff are currently planning for the 2008 surveys.

Fish and Invertebrates Counts in the Channel Islands

The R/V *Shearwater* conducted its second REEF fish and invertebrate count this year in the Channel Islands from November 29-30. The five divers conducted 29 REEF surveys inside and outside of the "no-take" marine reserves in the Sanctuary. Due to favorable weather and sea conditions, the majority of the REEF surveys were conducted around San Miguel and Santa Rosa islands in locations that are generally hard to get to in typical weather conditions. During the trip John Brooks also collected footage for the CINMS high definition film project.

Student and Citizen Science

White Abalone Restoration

Students in the Marine Studies Program at Oxnard College are participating in southern California white abalone restoration efforts, including field assessments of remnant natural populations, research on abalone biology and hatchery cultivation, and re-establishment of wild populations by experts from federal and state agencies, non-profit and private industry, and academic institutions. In this five-year, NOAA-funded project funded, the Sanctuary provides in-kind staff and vessel support, using the R/V *Shearwater* as a platform. Participating students work alongside researchers with the white abalone recovery team to monitor benthic invertebrate populations and abalone recruitment in the Channel Islands. Through the use of AGA masks (special SCUBA masks that allow for two-way communications between the diver and the surface) and underwater video cameras, divers from the Channel Islands National Park (CINP or Park), the Sanctuary, and the California Department of Fish and Game communicate directly with students on board the *Shearwater*. Students actively assist the divers in data collection, animal measurements, and water quality sampling. Outcomes of this educational program include educational and career opportunities for participating students and increased public awareness of environmental restoration and the endangered white abalone.

State of California Harmful Algal Bloom Study

CINC volunteers continue to conduct plankton tows on board the R/V *Shearwater* as part of a statewide study on

Harmful Algal Blooms. The tows are done in cooperation with Plumes and Blooms research cruises scheduled throughout the year.

Anacapa Island Larval Settlement Study

Several Channel Islands Naturalist Corps (CINC) volunteers continue to assist with a benthic larval settlement study in conjunction with the Park and the University of California Santa Barbara (UCSB). They collect samples two times per month at Anacapa Island.

Blue and Humpback Whale Photographic Identification

CINC volunteers participated in photographic identification of blue and humpback whales through November. The data was compiled and sent to Cascadia Research Collective, the primary source for population and distribution trends of blue and humpback whales in California waters. CINC volunteers doubled the number of images taken this field season to over 4,000 shots. Volunteers also provided to the American Cetacean Society sightings data on transient killer whales that were photographed on September 15 and 19, 2007.

EDUCATION, VOLUNTEER, & OUTREACH

Special Events

2007 From Shore To Sea Lecture Series Closes and 2008 Series Begins

Chris Mobley (Sanctuary Superintendent), and Russell Galipeau (Park Superintendent), provided public presentations on November 13 and 14. 45 citizens, stakeholders, volunteers, and students attended the first night, and 75 attended the second night. Mobley and Galipeau each gave a short Powerpoint presentation describing their program missions, current goals, and recent accomplishments, leaving plenty of time for a "town hall" format for questions and answers from the audience. Mobley highlighted the recent expansion of the Channel Islands MPA network into federal waters of the Sanctuary, and the multi-agency response and follow-up to the late September death of three blue

Channel. Galipeau focused on the restoration of the bald eagle and Channel Islands fox at the northern Channel Islands, as well as the successful eradication of feral pigs from Santa Cruz Island. Both focused on the critical importance of partnerships, and both expressed their thanks for the hundreds of hours of citizen support provided through the Advisory Council and through Park and Sanctuary volunteer programs.

On December 11 and 12, the 2007 lecture series drew to a close with Tim Coonan (Park Biologist) speaking about the status of the endangered Channel Islands fox. It was a fascinating talk about the recovery of this rare island mammal, which is important as the top predator in the Channel Islands. Tom Kendrick, author of the book *Bluewater Goldrush*, kicked off the 2008 lecture series on January 8 and 9, speaking about his odysseys as a California sea urchin diver.

The Sanctuary, Park, and Santa Barbara Maritime Museum jointly sponsor the "From Shore to Sea" lecture series in an effort to further the understanding of science and history of the Channel Islands and surrounding waters. The programs are free and open to the public. The lectures take place at 7:00 p.m. on one Tuesday and Wednesday per month, with Tuesday lectures at the Santa Barbara Maritime Museum's Munger Theatre, and Wednesday lectures at the Channel Islands National Park Robert J. Lagomarsino Visitor Center. For upcoming lectures please refer to the sanctuary calendar on p. 15, or visit the Sanctuary's From Shore to Sea web page:

<http://www.channelislands.noaa.gov/edu/shoretosea.html>

NOAA West Day at Aquarium of the Pacific

On November 17, Sanctuary staff participated in NOAA West Day at the Aquarium of the Pacific. CINC volunteers hosted an interactive booth featuring a nautical chart activity to explore the Sanctuary's different maritime and natural features. Julie Bursek (Sanctuary Education Coordinator) and Claire Fackler (NMSP Education Liaison) donned AGA masks and from the Blue Cavern Tank provided underwater

interpretive talks about the importance of protecting the kelp forest ecosystem through ecosystem management strategies like the Channel Islands MPA network.

Adult Education Field Trip to

You can watch the monthly From Shore to Sea Lectures on Ventura's Public Access Channel 15!
Visit <http://www.capstv.org> for programming information.

whales resulting from ship strikes in the Santa Barbara



Anacapa Island

On November 18, Julie Bursek hosted participants from the Santa Barbara City College adult education course "Discover Your Channel Islands National Marine Sanctuary" on a field trip aboard the R/V *Shearwater* to Anacapa Island. The adult education course is centered on the From Shore to Sea lecture series. Course participants are required to attend at least three of the monthly lectures to be eligible for the field trip aboard the *Shearwater*. Over 30 participants enrolled in the course and 16 participated on the field trip to Anacapa Island. Highlights of the field trip included observations of common dolphins in the Santa Barbara Channel, an interesting and informative interpretive hike on Anacapa Island led by CINC volunteer Bill Weinerth, and an exploration of Landing Cove Marine Reserve using a remotely operated vehicle (ROV). Based on the positive feedback from adult education participants, the Sanctuary will continue to offer this course in the spring of 2008.

Cabrillo High School Annual Remotely Operated Vehicle (ROV) Competition

Julie Bursek represented the Sanctuary as a judge at the Cabrillo High School annual ROV competition in Lompoc, California. Michelle Poquette, Cabrillo High School physics teacher and NOAA Teacher At Sea alumnus, teaches an ROV course in which student teams design and construct ROVs. Over 40 student teams constructed ROVs from PVC pipes and basic electrical switches, wiring and motors, to specifications that meet a specific course mission. The student teams then compete in the annual competition as part of their final grade in the class. The two-day competition consists of a team interview to evaluate student understanding of ROV technology, potential career opportunities and potential uses of ROVs in ocean exploration, and a timed underwater obstacle course in which student teams "fly" their ROVs through rings and collect samples of plastic fish using their high-tech manipulator arms (made from coat hangers). Some of the higher scoring student teams will have an opportunity to participate in an ROV cruise aboard the R/V *Shearwater* in February, when they will be able to learn about ROVs used in ocean research and exploration, and conduct an underwater fish survey using ROVs on loan from the Santa Barbara Maritime Museum and Santa Barbara City College.

Santa Barbara Channel Relay Swim to Benefit the National Marine Sanctuary Foundation

The fifth annual Santa Barbara Channel Relay Swim will support ocean conservation by benefiting the National Marine Sanctuary Foundation, specifically the Channel Islands. The swim is open to all swimmers that can swim in the ocean for at least 15 minutes with ease, and will take place June 27-28 from Santa Cruz Island to Goleta Beach outside of Santa Barbara. More information about this big swim and how to sign up and register can be found at

<http://santabarbarachannelswim.org>. For more detailed information on the swim and your involvement, please contact Claire.Fackler@noaa.gov.

Conferences

NMSP Brings Oceans into Classrooms at the California Science Teachers Association Conference

Nearly 3,000 educators from around the State of California participated in the California Science Teachers Association's annual conference held in Long Beach from October 25-28. In true partnership, the NMSP hosted a joint exhibit with the National Park Service to bring California's national marine sanctuaries and National Parks and Recreation Areas to science educators around the state. The NMSP also hosted a three-hour short course in collaboration with KQED, the PBS affiliate who brought the Jean-Michel Cousteau's Ocean Adventures series to the public. 96% of the short course participants rated the quality of the workshop in the top 25 they have ever taken, with 43% saying it was one of the top five workshops they have attended. 87% of the participants stated they are more likely to integrate marine science into their classroom as a direct result of this workshop. The NMSP also hosted three other presentations at the conference with topics including national marine sanctuaries as living classrooms.

Meetings

Marine Life Protection Act (MLPA) Implementation

Julie Bursek participated in a meeting hosted by the Monterey Bay Sanctuary Foundation on November 14 to discuss potential activities and products for an MLPA education and outreach implementation proposal to the Resources Legacy Foundation Fund. Bursek provided an overview of, and lessons learned from the Sanctuary's MPA network education and outreach implemented after designation of the Channel Islands state MPA network in

2003. Action items from this meeting include working with education staff from the Monterey Bay National Marine Sanctuary and the California Department of Fish and Game to prioritize education and outreach product and program development for MLPA education and outreach for the California central coast and the Channel Islands.

Multicultural Education for Resource Issues Threatening Oceans (MERITO)

The MERITO Academy

All schools participating in the 2007-2008 MERITO Academy are Title 1, Head Start, or New Comers (school programs for low income or migrant families) with approximately 80% of students of Hispanic background, 30% English Language Learners. All 730 participating students are 4th to 8th graders from public and charter schools in Santa Barbara, Carpinteria, Oxnard, and Ventura.

Partnerships with Santa Barbara and Oxnard City Governments: On October 15th and November 8th, Rocío Lozano-Knowlton (CINMS MERITO Academy Program Manager) obtained confirmation from the City of Oxnard, and the Santa Barbara City Creeks Outreach Division, respectively, of plans to jointly provide marine and watershed education field experiences to MERITO Academy students in the spring of 2008. As partners, the cities of Oxnard and Santa Barbara provide participating students with bus transportation to the MERITO Academy 'watershed connection to oceans' field sites. Additionally, the cities will provide staff who specialize in restoration biology and or watershed education, and materials such as native plants and seeds to use during the field experiences. These partnerships leverage existing program funds and will allow all 730 participating students a minimum of one field experience. The 'watersheds connection to oceans' experience includes various hands-on conservation activities such as native plant restoration at creeks, a visit to local waste-water treatment plants, exploration of Ormond Beach wetlands, and water quality testing.

In-class Presentations: Between October 23rd and December 3rd, Lozano-Knowlton and Shannon Newby (Channel Islands Marine Resource Institute Program Coordinator) provided 23 in-class presentations to the 730 students currently participating in the MERITO Academy. The presentations were in English or in

Spanish depending on the class language domain at each school. While viewing beautiful images of the marine life and habitats, students learned about their Sanctuary, its resources and programs. The presentations also introduced students to ocean-related threats, and used a watershed model demonstration to reinforce the connection between watersheds and oceans and how our actions impact the health of the ocean. The 23 presentations initiated the program and will be followed by in-class activities and lesson plans implemented by teachers who were trained how to use the draft MERITO Academy curriculum during the MERITO Academy Educators Workshop of October 2007.

The presentations were as follows:

- Canalino Elementary, Carpinteria - one presentation to a 5th grade class (25 students) on October 17th
- Drifill Elementary, Oxnard - three presentations to one 4th, one 5th and one 6th grade class (100 students total) on October 19th, 22nd and November 19th.
- Emily Ritchen Elementary, Oxnard, - two presentations to one 5th and one 6th grade class (60 students) on October 23rd
- Montalvo Elementary, Ventura - four presentations at two 4th and two 5th grade classes (120 students) on November 5th and 7th
- Community Day Middle School, Santa Barbara - one presentation to one 8th grade class (25 bilingual youth at risk students) on November 6th
- Sunkist Elementary, Oxnard - two presentations to 5th and 6th graders (50 gifted and talented students from an after school science program) on November 7th
- JK Frank Intermediate School, Oxnard - five presentations to five 7th grade classes (160 students) on November 14th, 16th and 25th
- Harding Elementary, Santa Barbara - two presentations to two 5th grade classes (65 bilingual students) on November 20th
- Cesar Chavez Charter School, Santa Barbara - three presentations to one 4th, one 5th, and one 6th grade class (90 students) on November 30th and December 3rd.
- Franklin Elementary, Santa Barbara - one presentation to a 5th grade class (35 students) on December 3rd.

Exploring Collaboration with Mexico

On December 5th, Lozano-Knowlton participated in a productive meeting to discuss several U.S. and Mexican agencies and organizations' mutual interest in collaborating. The meeting took place in La Paz, Baja California Sur, Mexico. Other meeting participants included Benito Bermudez (Mexico National Commission of Natural Protected Areas, Regional Director for the Baja California Peninsula and North Pacific), Oscar Soza Nishikawa (Oceanographic Research Director, Center for Scientific Research and Superior Education of Ensenada), John O'Sullivan (Chief Curator, Monterey Bay Aquarium). This partnership may allow the exchange of scientific research information, and the standardization of resource protection across the border of U.S.A.-Mexico border, starting with Guadalupe Island off the coast of the North Baja Peninsula. Guadalupe Island is the most recent natural protected area in Mexico currently with a draft management plan lacking marine resource management guidelines. Bermudez expressed his interest in working on a U.S.A.-Mexico government agency level, and considered the meeting the initiation of this collaboration. Bermudez also expressed interest in visiting the Monterey Bay and Channel Islands national marine sanctuaries early in 2008.

Channel Islands Naturalist Corps (CINC) Volunteer Program

Program Overview

CINC volunteers educate local school children, residents, and tourists, monitor Sanctuary and Park resources, and conduct research on board local whale watch vessels departing out of Santa Barbara Harbor, Ventura Harbor, and Channel Islands Harbor. The field season runs from January – October, capturing the presence of migrating gray whales and foraging blue and humpback whales. In addition to field interpretation and research, CINC volunteers also provide presentations for local schools and community groups, and represent the Sanctuary and Park at marine-related community outreach events.

November & December Whale Watch Vessel Excursions

The *Condor Express*, based out of Sea Landing in Santa Barbara Harbor, went on nine trips in November, and twelve in December. The Island Packers vessels *Island Adventure* and *Islander*, based out of Ventura, led no whale watch trips in November, and fourteen in

December. Thus, there were a total of 35 whale watching trips in November and December.

November & December Island Programs

CINC island hike naturalists participated in the following trips. With Islands Packers' vessels *Island Adventure* and *Islander*, naturalists led ten trips to Scorpion Anchorage, Santa Cruz Island in November, and twelve trips there in December, along with one trip to Anacapa Island in December. With Island Packers' vessel *Vanguard*, naturalists led five trips to Anacapa Island in November, and one trip there in December. This amounts to a total of 28 naturalist-led island hike trips in November and December.

Special Field Trips

On November 3rd, 28 CINC volunteers participated in a group day trip to Anacapa Island, and Scorpion Ranch on Eastern Santa Cruz Island, as part of the island hike training with the Park. The Sanctuary's R/V *Shearwater* provided transportation to and from the islands.

On November 18th, 16 Santa Barbara City College adult education students embarked on a field trip aboard the R/V *Shearwater* to Anacapa Island. The students, participants of the "Discover your Channel Islands National Marine Sanctuary" course, observed common dolphins, and explored Landing Cove Marine Reserve using an ROV. CINC Volunteer, Bill Weinerth, provided interpretation for marine life in the Santa Barbara Channel, and led an interesting and informative interpretive hike on the Island.

Understanding the Channel Islands Symposium

A symposium was held on December 7th at California State University, Channel Islands, to educate students and the community about the Channel Islands. Topics included an overview of the Islands, the National Park Service's role on and around the Islands, and an overview of the Sanctuary by Superintendent Chris Mobley. Several CINC volunteers attended and will be eligible to board a free trip to Santa Cruz Island on March 15th.

CINC Monthly In-Service Meetings

Monthly meetings for the CINC run from February through September on the third Tuesday of each month. The first meeting of the new year will be held on February 19th, with The Nature Conservancy, Santa Cruz Island, presenting.



SPOTLIGHT ON VOLUNTEERS

Channel Islands Naturalist Corps Volunteer Field Report: November 26, 2007

Don't get the Blues just yet, a few of the BIG Ones are still lingering in the SB Channel and what a show they put on yesterday (Sun.)! Naturalist Hal Altman and I had the good fortune, along with 35 passengers, many from foreign countries, to witness this spectacular show that thrilled us all. One of the passengers was an eighty-five year old zoologist from Germany who had been a researcher in Finland during the fifties working with weasels and other mammals, and she had never seen a whale. She and her sister had a twinkle in their eyes and a smile on their faces as they witnessed the animation of these behemoths cavorting about us, only yards away. She and I had an interesting conversation about author Rachael Carson (remember "Silent Spring") and her first book, "The Sea Around Us," in which Carson prognosticated what could happen to the world's oceans if we didn't change some of our practices. Unfortunately, much of what Carson foretold regarding the health and vitality of the world's oceans has turned out to be accurate. It was nice to chat with someone aware of Carson's first book, which is an interesting read, especially considering it was researched in the late forties and published in 1950.

After leaving the harbor under cloudy skies we were only several miles out when thanks to Captain Matt we saw a blue shark swimming on the surface, and moments later an Elephant Seal. A few minutes later a lone Fulmar (a seabird) was noted resting on the water, then for the next hour there wasn't much to report.

Once we arrived at the 100 fathom curve area off Santa Rosa Island, we turned and headed east after Matt thought he had seen some blows. Ten or fifteen minutes later we ran across a small pod of common dolphins, and then within minutes the spouts of three large blue whales appeared directly in front of us, out 200 yards. Matt has a proclivity for sighting marine life at great distances and he had indeed seen blows in the distance. I wished the photo I.D. project camera had been aboard, as these three blues had a variety of identifying marks, including, one with no dorsal fin, two with unusual pigment patches on their flanks, one with a two-inch diameter plug (hole) on its left side, and another with orange marking behind its head (which I guessed to be either diatoms or parasites). I looked for evidence of tags but saw none on these three.

These whales came down one side of the boat, then the other, mostly in tight formation and as close as 25 yards. They came straight at us, they moved straight away, they moved away and toward us obliquely, with bursts of speed, lunges and side rolls, with both pectoral and tail flukes cutting through the water. Matt indicated that the female blues are in estrus in November and would be receptive to male advances. I believe that's exactly what we were witnessing. Seems likely we were observing two males and a female, frolicking about, jockeying for an advantageous position and creating a good deal of turbulence in the process. I was amazed how fast they could move their huge bodies and how maneuverable they are when motivated.

On several occasions the lunges looked a little like spy hops as they unfolded in slow motion. We had numerous good looks at their rostrums and a least once a view of baleen plates. The force, power, volume, and resonance of their exhalation was truly impressive. We also heard the sounds of a quick inhale. As one blue moved ahead of us and I was viewing him/her straight on, I was amazed at his/her spine flexibility, and what a tight turn he/she was capable of.

It was one of those days where you just look at other passengers and say nothing. We all knew it had truly been a special day and how fortunate we were.

— John Kuizenga
Channel Islands Naturalist Corps '2005

Note from the Sanctuary Volunteer and Outreach Coordinator: Several CINC volunteers assisted the Santa Barbara Museum of Natural History with the blue whale stranding on Faria Beach. Our volunteers were instrumental with crowd control and educating the public about our local marine life.

CINC Volunteer Orientation Meetings

Special orientation meetings were held on November 6th and 8th to recruit new CINC volunteers for 2008. Shauna Bingham (CINMS Volunteer and Outreach Coordinator), and Derek Lohuis (of Channel Islands National Park) gave program introductions and an overview of each agency for the joint volunteer program. Twenty-six new volunteers were added to the program this year, bringing the total to 135 volunteers in 2008.

CINC Volunteer Training

On October 30th, the Sanctuary and Park conducted an annual island hike volunteer training class to prepare CINC volunteers to lead formal public education programs on the Channel Islands. These volunteers were required to attend three classroom training

sessions, participate in field training on November 3rd on board the R/V *Shearwater*, and pass a practical exam to become certified for this portion of the CINC program. Over 45 CINC volunteers attended the island hike training. Training session topics included: formal interpretive skills, CINP natural resource overview / island restoration, CINP cultural resource overview and island history, archeology, and island plants (with a field trip to the Santa Barbara Botanical Garden).

General training for the 2008 class of new CINC volunteers began January 8th and will run through February 2nd, when there will be a graduation and potluck lunch. The training schedule follows.

2008 Training Schedule for New CINC volunteers			
DATE	TOPIC	SPEAKER	LOCATION
Tues, Jan 8 6:30 – 8:30 PM	WELCOME! & Volunteer Training Packet CINP Agency Overview	Shauna Bingham, CINMS Derek Lohuis, CINP	CINP Visitor Center 1901 Spinnaker Dr VENTURA
Thurs, Jan 10 6:30 – 8:30 PM	Pinnipeds / Seals and Sea Lions CINMS Agency Overview	Peter Howorth, Santa Barbara Marine Mammal Center Shauna Bingham	CINP Visitor Center VENTURA
Tues, Jan 15 6:30 – 8:30 PM	Oceanographic Context of the SCB and the SB Channel	Dr. Libe Washburn, UCSB ICES	Chase Palm Park Building 236 E. Cabrillo Blvd. SANTA BARBARA
Thurs, Jan 17 6:30 – 8:30 PM	Informal Interpretation Techniques	Yvonne Menard, CINP Valerie Olson, Morgan Coffey	CINP Visitor Center VENTURA
Tues, Jan 22 6:30 – 8:30 PM	Channel Islands Archeology and Chumash Ethnohistory	Dr. John Johnson, Curator of Anthropology, SBMNH	Chase Palm Park Building SANTA BARBARA
Thurs, Jan 24 6:30 – 8:30 PM	Coastal Birds of Southern California	Dr. Joan Lentz	CINP Visitor Center VENTURA
Tues, Jan 29 6:30 – 8:30 PM	Geology of Santa Barbara and Channel Islands	Dr. Tanya Atwater, UCSB	Chase Palm Park Building SANTA BARBARA
Thurs, Jan 31 6:30 – 8:30 PM	Marine Mammals/ Whales, Dolphins, & Porpoises	Dr. Charles Rennie, III, Curator Emeritus Vertebrate Zoology, SBMNH	CINP Visitor Center VENTURA
Sat, Feb 2 8:30AM – 2:30PM (1 PM)	Presentations Scheduling and Vessel Overview Correcting the Exam with Mentors Uniforms & Graduation Potluck Lunch Birding walk at Surfers' Knoll in Ventura Harbor	Mentors & pods Clare Fritzsche, Shauna Bingham Pods Dr. Joan Lentz	CINP Visitor Center VENTURA Surfers' Knoll

MARITIME HERITAGE PROGRAM

'Elye'wun Ten-Year Anniversary

November 24th marked the ten-year anniversary of the launching of the Chumash tomol (or plank canoe) *'Elye'wun*. The birthday celebration was hosted by the Chumash community and included a special ceremonial circle at West Beach in Santa Barbara, and a paddling excursion from Santa Barbara Harbor to Leadbetter Beach. *'Elye'wun*, which means swordfish in Chumash, was built in 1997 with funding provided by CINMS. This tomol has successfully made five crossings from the mainland to Santa Cruz Island and has been involved in several mainland paddling excursions. The birthday event recognized the importance of the tomol to the contemporary Chumash community and Chumash ancestral heritage, as well as to recognition from other indigenous communities on a global scale.



'Elye'wun landing Leadbetter Beach.
Photo: Robert V. Schwemmer.

The paddlers and original builders of this tomol were honored by Chumash elders, who shared with the group the need to engage the younger generation to become paddlers and tomol builders. Participating Sanctuary staff included Robert Schwemmer (CINMS and West Coast Maritime Heritage Coordinator) and Michael Murray, who shared their experiences in past crossings and provided imagery documenting *'Elye'wun's* history at the Channel Islands. Schwemmer and Murray were given ceremonial redwood planks in honor of the birthday celebration. For more information please visit: <http://channelislands.noaa.gov/cr/chumash.html>.

West Coast Region Maritime Heritage Program

GFNMS Condition Report

At the request of Kathy Broughton of the NMSP, Schwemmer provided the historic context for the GFNMS condition report. Specifically, this document will include information on the status and trends of water quality, habitat, living resources and maritime archaeological resources and the human activities that affect them.

M/V Cosco Busan Spill Response

Robert Schwemmer worked with Mike Overfield of the NMSP, West Coast Region national marine sanctuary superintendents, and state and federal partners on the *M/V Cosco Busan* oil spill response. Schwemmer provided data on archaeological resources that may be at risk in the Monterey Bay and Gulf of the Farallones national marine sanctuaries. On November 7th at 8:30 am PST, the container ship, *M/V Cosco Busan* struck the Oakland Bay Bridge in San Francisco Bay, ultimately releasing approximately 58,000 gallons of IFO 380 bunker fuel. The bunker fuel was transported by tidal currents into both national marine sanctuaries. For more information please visit:

http://www.noaanews.noaa.gov/stories2007/20071115_oilspill.html.



M/V Cosco Busan hull damage. Photo United States Coast Guard District 11

CHANNEL ISLANDS: WINDOW ON THE PAST

Looking back eighty-seven years, the *Los Angeles Times* on February 4, 1921 reported:

HOME ON A ROCK.

Island Dwellers Driven from Abiding Place by Law.

SANTA BARBARA. Feb. 3. – Gull Rock or island, lying a mile and a quarter off the south shores of Santa Cruz Island, has been preempted by two alleged squatters, John Gorgensen and Jacob Hansen. The two men for several years had a cabin on the shore of Santa Cruz Island, and were named as defendants in an ejectment suit brought in the courts here by the Santa Cruz Island Company.

Deputy Sheriff John Longawa made a voyage to the island to serve papers on the men in the suit, but found a deserted cabin. The men had loaded their effects into a skiff and put off to Gull Rock, which is owned by the government. There they have taken possession of a cave, one of several formerly occupied by the gulls and other sea birds, and it is said by this move have defeated the ejectment suit.

Gull Rock is some three acres in extent, and at times is heavily sprayed by the sea, through the cave where the men now live is high and dry, with usually a boiling surf surrounding it.

USS Macon Expedition 2006

Working with Bruce Terrell (NMSP Senior Archaeologist), Schwemmer reviewed and provided comments for NOAA's Office of Exploration USS *Macon* 2006 expedition report. The U.S. Navy's airship USS *Macon* was lost off the Big Sur coastline in 1935, and the archaeological remains are within the boundaries of the Monterey Bay National Marine Sanctuary. For more information please visit:

<http://sanctuaries.noaa.gov/missions/2006macon/welcome.html>.

Olympic Coast National Marine Sanctuary (OCNMS)

Traveling to the OCNMS, Schwemmer met with Robert Steelquist (OCNMS Education Coordinator), and Robert Pavia (of the NMSP), and volunteer divers who are interested in providing support in recording shipwrecks

in the OCNMS. During his visit to Port Angeles, Schwemmer provided a presentation on the USS *Macon* 2006 Expedition to OCNMS volunteers.

Yurok Tribe Maritime Heritage Resource Inventory

Schwemmer is currently conducting research for a maritime heritage resource inventory for the Yurok tribal region that includes the offshore waters between Cape Mendocino and St. George Reef in Northern California.

Pigeon Point Light Station

Schwemmer provided Christy Walker of the Gulf of the Farallones National Marine Sanctuary (GFNMS) with imagery and posters featuring maritime heritage resources in the Gulf of the Farallones and Monterey Bay national marine sanctuaries to be highlighted at the 135th anniversary lighting of Pigeon Point Light Station on November 17th. The event also marks the grand opening of the new interpretive center featuring maritime heritage resources of the region, a cooperative effort of the NMSP, California State Parks, and San Mateo Coast Natural History Association. For more information please visit:

http://www.parks.ca.gov/default.asp?page_id=533.



Pigeon Point Light Station shipwreck exhibit.
Photo Robert V. Schwemmer

WEB SITE (<http://channelislands.noaa.gov>)

Recent Updates

Visit the web pages listed below to see recently updated sections of the CINMS web site.

Updates to the Marine Reserves homepage are available including the new reserves map as well as the Social Science Plan at:

<http://channelislands.noaa.gov/marineres/main.html>
<http://channelislands.noaa.gov/marineres/supplemental.html>

The Advisory Council section of the website has been updated to host the recruitment of open seats for 2008 and new meeting dates available at:

<http://channelislands.noaa.gov/sac/news.html>
<http://channelislands.noaa.gov/sac/announcement.html>

The Marine Reserves educational digital lab on Ocean's Live has been updated and is available on the CINMS site at:

<http://channelislands.noaa.gov/edu/cool.html>

Don't forget to check out our calendar of events and what's new pages to find out what's happening locally at:

<http://channelislands.noaa.gov/focus/calendar.html>
<http://channelislands.noaa.gov/focus/wnew.html>



Latest News

Kiosks

Along with a replacement kiosk at the Ty Warner Sea Center on Stearn's Wharf in Santa Barbara, CINMS will be installing 3 new interactive touch screen kiosks in January 2008:

- 1 Offshore unit - Santa Barbara Harbor Patrol
- 1 i-beam unit - California Welcome Center, Oxnard
- 1 Offshore unit - Island Packers in Ventura

NOAA Webshop

From November 13-15, 2007 the Virtual NOAA Webshop was held via national video teleconference (VTC) network and Webcast virtual communication

mechanisms. This was the largest VTC in the history of NOAA. The underlying tone of all Webshop events continues to be collaboration. The web has become a main mechanism of communication to internal and external customers and is increasingly important to our mission goals. Keynote addresses were given by Joe Klimavicz (NOAA Chief Information Officer) and Anson Franklin (Director of NOAA Communications). Conference headliners were web policies, web security & content management systems. Discussions included administrative issues the web faces, the future of NOAA's web presence, NOAA web, people and processes. For more information go to:
<http://www.webshop.noaa.gov/>.

Upcoming Modifications

Discussions are in progress to update the Research section of the website to include a more dynamic interface and reorganization of content. Preliminary talks have taken place to discuss requirements of moving our Marine Mammals Sightings Database over to the SiMon database (<http://www.mbnms-simon.org/>). A final review of the Marine Reserves Education website is currently underway and awaiting approval for launch. In partnership with the National Weather Service, our online version of the 'weather kiosk' is in continued development to host new links to the wind models, buoys, and forecast & warnings pages. The edits will also be applied to all the existing sanctuary kiosk units. The Plumes & Bloom's website is on deck for file replacement and updates.

Long-term Monitoring Program and Experiential Training for Students (LiMPETS) Web Site

Student monitoring of the rocky intertidal and sandy beach ecosystems just got easier with the new user-friendly LiMPETS Web site:

<http://limpetsmonitoring.org>. LiMPETS is an environmental monitoring and education program for students, educators, and volunteer groups throughout California. Approximately 3,500 teachers and students along the coast of California are collecting rocky intertidal and sandy beach data as part of the LiMPETS network.

Please take a few moments to peruse the site. Your feedback is greatly appreciated. Comments and suggestions can be sent to amy.cale@noaa.gov.

THREE-MONTH CHANNEL ISLANDS NATIONAL MARINE SANCTUARY CALENDAR

JANUARY	
Jan. 25	<i>Sanctuary Advisory Council Meeting</i> Casa Las Palmas (323 E. Cabrillo Blvd. in Santa Barbara) An agenda, directions and more information will be posted at: channelislands.noaa.gov/sac/announcement.html
FEBRUARY	
Feb. 5-7	<i>7th California Islands Symposium</i> Mandalay Bay Resort, Oxnard For more information please visit: http://www.californiaislands.org/
Feb. 7-8	<i>Channel Islands Marine Reserves Symposium</i> Mandalay Bay Resort, Oxnard CA For more information please visit: http://www.californiaislands.org/CISMainPages/NOAA%205-year%20Monitoring%20Review.htm
Feb. 9-11	<i>Ventura County Maritime Museum Anniversary</i> Fisherman's Wharf, Channel Islands Harbor, Oxnard For more information please contact the museum at 805-984-6260.
Feb. 12, 13	<i>From Shore to Sea Lecture Series:</i> Linda Bentz, Ventura County Chinese American Historical Society <i>Sea of Prosperity: Chinese Fishermen on the Channel Islands</i> Tuesday: 7:00 pm Santa Barbara Maritime Museum (113 Harbor Way in Santa Barbara) Wednesday: 7:00 pm Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura)
MARCH	
Mar. 11, 12	<i>From Shore to Sea Lecture Series:</i> John Hildebrand, Scripps Institution of Oceanography, UC San Diego <i>Marine Mammal Acoustics Monitoring in the Channel Islands</i> Tuesday: 7:00 pm Santa Barbara Maritime Museum (113 Harbor Way in Santa Barbara) Wednesday: 7:00 pm Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura)
Mar. 14	<i>Sanctuary Advisory Council Meeting</i> Channel Islands National Park Visitor Center (1901 Spinnaker Drive in Ventura) An agenda, directions and more information will be posted at: channelislands.noaa.gov/sac/announcement.html
Select January – March Nature Sightings	Gray whales (<i>Eschrichtius robustus</i>) travel through the sanctuary on their migration from Alaskan feeding grounds to warm calving lagoons in Baja California, Mexico (December through February). California Brown Pelicans (<i>Pelecanus occidentalis californicus</i>) begin nesting on Anacapa and Santa Barbara islands (January and February). Northern elephant seal (<i>Mirounga augustirostris</i>) pupping and breeding season on San Miguel Island (January and February). For more nature sightings information visit: http://channelislands.noaa.gov/seasons/november.html . You can also record data about your own mammal sightings, as well as learn about past mammal sightings using our marine mammal sightings database: http://www.cisanctuary.org/mammals/ .



Gull Island (left), offshore from San Miguel Island, is featured in this issue's "Window on the Past" (p. 13). Squatters took up residence on the island in 1921, while present-day occupants include California sea lions (right). Photos: Robert V. Schwemmer.

CINMS Staff

Santa Barbara Harbor Office

Christopher Mobley – *Superintendent*
Todd Jacobs – *Deputy Superintendent*
Amy Cale – *Web Developer*
Laura Francis – *Education Coordinator*
Sean Hastings – *Resource Protection Coordinator*
Steve Katz – *Research Coordinator*
Charles Lara – *Vessel Operator*
Dani Lipski – *Research Assistant*
Sarah MacWilliams – *Management Plan Specialist*
Michael Murray – *Advisory Council and
Management Plan Coordinator*
Luman Moody – *Vessel Captain*
LT Matt Davis – *Operations Officer*
Robert Schwemmer – *Regional Maritime Heritage Coordinator*
Natalie Senyk – *Scientific Advisor*
Terrence Shinn – *Vessel Captain*
Ben Waltenberger – *Physical Scientist*
Rebecca Young – *Inventory/Database Coordinator*

Ventura County Field Office

Shauna Bingham – *Volunteer Program and Outreach
Coordinator*
Julie Bursek – *Education Coordinator*
Clare Fritzsche – *CINMS Volunteer Program & Administrative
Assistant*
Lorri Herr – *Program Support Specialist*
Rocío Lozano de Knowlton – *Bilingual Education & Outreach
Specialist*
Tina Reed – *Administrative Support Coordinator*

CINMS Interns

Michael S. Henry – *Policy, Planning, and Resource Protection
Intern*

NMSP West Coast Region Staff

William Douros – *Regional Superintendent*
Matt Brookhart – *Policy Coordinator*
Nicole Capps – *Management Support Specialist*
Dave Lott – *Operations Coordinator*

NMSP Staff

Columbine Culberg – *Ocean Etiquette Program Manager /
Liaison to Aquarium of the Pacific*
Claire Fackler – *West Coast Education Liaison*
Sarah Marquis – *West Coast Media Coordinator*

Channel Islands Marine Sanctuary Foundation

Kelly Darnell – *Acting Executive Director*

Learn More About Your Sanctuary

The Channel Islands National Marine Sanctuary produces the Sanctuary Superintendent's Report in conjunction with bi-monthly Sanctuary Advisory Council meetings. To learn more about the sanctuary please visit our web site at: <http://channelislands.noaa.gov>.

To learn more about the Sanctuary Advisory Council please visit:

<http://channelislands.noaa.gov/sac/main.html>.

The National Marine Sanctuary Program

The National Marine Sanctuary System consists of 14 marine protected areas that encompass more than 150,000 square miles of marine and Great Lakes waters from Washington State to the Florida Keys, and from Lake Huron to American Samoa. The system includes 13 national marine sanctuaries and the Northwestern Hawaiian Islands Marine National Monument." The NMSP, which manages the system, was established under the National Marine Sanctuaries Act of 1972. Visit the NMSP web site at: <http://sanctuaries.noaa.gov/>.

Channel Islands National Park

To learn about Channel Islands National Park visit their web site at: <http://www.nps.gov/chis/homepage.htm>.

GET INVOLVED AND STAY INFORMED!

To learn how to get involved in the sanctuary visit:

<http://channelislands.noaa.gov/focus/involved.html>

Sign up for the CINMS listserv to receive email notices about upcoming sanctuary events, and public meetings of the Sanctuary Advisory Council and its working groups:

<http://channelislands.noaa.gov/focus/list.html>

- CONTACT INFORMATION -

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